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European Patent Office

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(11) EP 0 942 568 A3

(12)

## **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: 12.04.2000 Bulletin 2000/15

(51) int CI.7: **H04L 9/32**, H04B 7/26, H04L 29/06

(43) Date of publication A2: 15.09.1999 Bulletin 1999/37

(21) Application number: 99301079.2

(22) Date of filing: 15.02.1999

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: 17.02.1998 US 24928

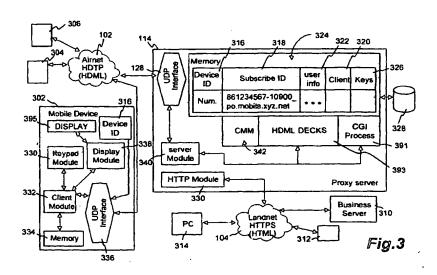
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# (54) Centralized certificate management system for two-way interactive communication devices in data networks

(57) The present invention discloses a method for managing centralized certificates in a proxy server device (114) for a plurality of thin client devices (302, 304, 306) coupled thereto through a data network (102). A user account database, accessible by the proxy server, comprises a plurality of user accounts with each of the thin client devices being associated with one or more of the user accounts. Each of the user accounts comprises a device ID (316), a list of public and private keys (326) assigned to the user account, and a list of certificates (320) assigned to the user account. A certificate man-

agement module reserves a fixed number of free certificates signed by a Certificate Authority and their respective private keys in a certificate database (328) and frequently updates the free certificate according to a certificate updating message. Whenever a user account is created for a thin client device, the certificate management module fetches one or more free certificates from the certificate database and associates the fetched certificate(s) to the created account and at the same time creates new free certificates with the Certificate Authority to fill in the certificate database.





# **EUROPEAN SEARCH REPORT**

Application Number EP 99 30 1079

ategory	Citation of document with indi		Relevant to ctaim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
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### ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 99 30 1079

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

14-02-2000

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82